

MR929-1176

Serial Number: 10/753,388

Response to Office Action dated 5 July 2007

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listing of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A device for measuring electrocardiogram with tapeless format comprising:

~~a shell having opposing top and bottom surfaces, the shell being shaped as a thin and long cube and having at least one operating panel on the top surface~~

a top surface having

a left side;

a right side;

a right upper finger touching area located on the right side of the top surface;

a left upper finger touching area located on the left side of the top surface and being parallel with the right upper finger touching area;

a bottom surface being opposite to the top surface having;

a left side;

a right side;

a right lower finger touching area located on the right side of the

bottom surface; and

a left lower finger touching area located on the left side of the

bottom surface and being parallel with the right lower finger touching area;

a front edge vertically formed between the top and bottom surfaces;

a right edge vertically formed between the top and bottom surfaces;

a left edge vertically formed between the top and bottom surfaces; and

a rear edge vertically formed between the top and bottom surfaces;

~~at least two gelless electrodes with a thin foil shape slightly embedded and fixed in the operating panel, and two gelless electrodes extending from the upper surface through at least one edge of the shell to the bottom surface of the shell opposite to the operating panel;~~

a right finger gelless electrode with a thin foil shape having

a right upper gelless electrode embedded in the right upper finger

touching area of the top surface and being distant from the right, left and rear edges;

a right lower gelless electrode formed on the right lower finger touching area of the lower surface and being distant from the right, left and rear edges; and

a right middle gelless electrode formed on the front edge and connected between the right upper and lower gelless electrodes and being distant from the right and left edges;

a left finger gelless electrode with a thin foil shape having

a left upper electrode embedded in the left upper finger touching area of

the top surface and being distant from the right, left and rear edges;

a left lower electrode formed on the left lower finger touching area of the lower surface and being distant from the right, left and rear edges; and

a left middle electrode formed on the front edge and connected between the left upper and lower electrodes and being distant from the right and left edges;

at least one information display located on the top surface operating panel to display a plurality of measured values; and

a calculation system disposed-mounted in the shell and connected to the two gelless electrodes and the information display for calculating relative electrical information measured from the gelless electrodes and display results on the information display.

Claim 2. (Previously Presented) The device for measuring an electrocardiogram with tapeless format as recited in claim 1, wherein the operating panel has at least one button to set and transfer functions.

Claim 3 (Cancelled)

Claim 4. (Previously Presented) The device for measuring an electrocardiogram with tapeless format as recited in claim 1, wherein each of the gelless electrodes is made of any conductive metal or rubber.

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Claim 5. (Previously Presented) The device for measuring an electrocardiogram with tapeless format as recited in claim 1, wherein information values shown on the information display include at least values of ST segment, QRS interval and heart-beat rate.

Claim 6. (Previously Presented) The device for measuring an electrocardiogram with tapeless format as recited in claim 1, wherein the calculation system further comprises:

- a pre-signal amplify circuit;
- an electrocardio signal amplify/filter circuit;
- an analog/digital transfer circuit; and
- a CPU;

wherein the pre-signal amplify circuit is connected to the gelless electrodes to receive relative electrical data, and the calculation system continuously displays results on the information display after calculating the electrical data by means of the electrocardio signal amplify/filter circuit and the analog/digital transfer circuit and the CPU.

Claims 7-12 (Cancelled)

Claim 13. (Currently Amended) A device for measuring an electrocardiogram

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with tapeless format comprising:

a shell having opposing top and bottom surfaces, the shell being shaped as a thin and long cube and having at least one operating panel on the top surface;

a top surface having

a left side;

a right side;

a right upper finger touching area located on the right side of the top surface; and

a left upper finger touching area located on the left side of the top surface and being parallel with the right upper finger touching area;

a bottom surface being opposite to the top surface;

a front edge vertically formed between the top and bottom surfaces;

a right edge vertically formed between the top and bottom surfaces;

a left edge vertically formed between the top and bottom surfaces; and

a rear edge vertically formed between the top and bottom surfaces;

~~at least two gelless electrodes slightly embedded and fixed in the same surface;~~

a right finger gelless electrode with a thin foil shape embedded in the right upper finger touching area of the top surface and being distant from the front, right, left and rear edges;

a left finger gelless electrode with a thin foil shape embedded in the left upper finger touching area of the top surface and being distant from the front right, left and rear

edges;

at least one information display located on the top surface operating panel to display a plurality of measured values; and

a calculation system ~~disposed~~ mounted in the shell and connected to the two gelless electrodes and the information display for calculating relative electrical information measured from the gelless electrodes and display results on the information display.

Claim 14. (Currently Amended) The device for measuring an electrocardiogram with tapeless format as recited in claim 13, wherein the top surface operating panel has at least one button to set and transfer functions.

Claim 15. (Previously Presented) The device for measuring an electrocardiogram with tapeless format as recited in claim 13, wherein the gelless electrodes are made of a conductive metal.

Claim 16. (Previously Presented) The device for measuring an electrocardiogram with tapeless format as recited in claim 13, wherein the gelless electrodes are made of conductive rubber.

Claim 17. (Previously Presented) The device for measuring an

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electrocardiogram with tapeless format as recited in claim 13, wherein information values shown on the information display include at least values of ST segment, QRS interval and heart-beat rate.

Claim 18. (Currently Amended) The device for measuring an electrocardiogram with tapeless format as recited in claim 13, wherein

the calculation system further comprises:

a pre-signal amplify circuit;

an electrocardio signal amplify/filter circuit;

an analog/digital transfer circuit; and

a CPU;

wherein the pre-signal amplify circuit is connected to the gelless electrodes to receive relevant electrical data; and

the calculation system continuously displays results on the information display after calculating the electrical data by means of the electrocardio signal amplify/filter circuit, and the analog/digital transfer circuit and the CPU.

Claim 19-20 (Cancelled)

Claim 21. (Currently Amended) The device for measuring an electrocardiogram with tapeless format as recited in claim 13, further comprising a cover.

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Claim 22 (Cancelled)